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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/706,713	11/12/2003	William E. Slack	PO7976/MD-03-30	7245
157 7590 07/16/2007 BAYER MATERIAL SCIENCE LLC 100 BAYER ROAD			EXAMINER	
			SERGENT, RABON A	
PITTSBURGH, PA 15205			ART UNIT	PAPER NUMBER
			1711	
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			MAIL DATE	DELIVERY MODE
			07/16/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)		
		10/706,713	SLACK, WILLIAM E.		
	Office Action Summary	Examiner	Art Unit		
		Rabon Sergent	1711		
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the	correspondence address		
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DAISSION of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. It is provided by the communication of the provided period for reply is specified above, the maximum statutory period we reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be to the company and will expire SIX (6) MONTHS from the cause the application to become ABANDON	ON. imely filed m the mailing date of this communication. IED (35 U.S.C. § 133).		
Status					
	Responsive to communication(s) filed on <u>09 Ay</u> This action is FINAL . 2b) This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final.			
Dispositi	ion of Claims				
5)□ 6)⊠	Claim(s) 1-44 is/are pending in the application. 4a) Of the above claim(s) 19-44 is/are withdraw Claim(s) is/are allowed. Claim(s) 1-18 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or	n from consideration.			
Applicati	on Papers				
9)[The specification is objected to by the Examine	r.			
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority L	ınder 35 U.S.C. § 119				
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.					
222 the distance detailed Chief design for a list of the certified copies not received.					
Attachment	i(s)				
1) Notice 2) Notice 3) Inform	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal I 6) Other:	Date		

Application/Control Number: 10/706,713

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1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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2. Claims 1-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Slack et al. ('609 or '308) in view of Scholl et al. ('370) and further in view of Slack et al. ('272 or '399 or '746) or Rosthauser et al. ('652) or Markusch et al. ('913).

The primary references disclose the production of allophanate-modified, trimerized MDI having NCO contents that meet those claimed, wherein the MDI is reacted in the presence of a trimerization catalyst, an allophanate catalyst, and an organic compound containing at least one hydroxyl group, such as isomeric butanols or propanols. See abstracts, column 3, lines 48+; column 6, lines 29-36; and examples 10, 14, and 15. Furthermore, the primary references disclose quantities of the hydroxyl compound utilized and conversions of urethane groups to allophanate groups that meet those claimed and the use of catalyst poisons to end the reaction at the desired point. See column 3, lines 1-37.

3. As aforementioned, the primary references disclose the use of MDI; however, the references fail to disclose applicant's specifically claimed MDI isomer mixture. Still, the use of MDI isomer mixtures corresponding to those claimed to produce liquid, stable polyisocyanates having the claimed NCO content range was known at the time of invention. Scholl et al. disclose the use of such mixtures to produce isocyanurate containing liquid, stable polyisocyanates. See abstract and columns 1 and 2. Slack et al. ('272, '399, and '746), Rosthauser et al., and Markusch et al. disclose the use of such mixtures to produce allophanate containing liquid, stable

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polyisocyanates. See abstract and column 5, lines 55+ within Slack et al. ('272). See column 2, lines 32+ within Rosthauser et al. See abstract and column 4, lines 49+ within Markusch et al. See abstracts and columns 2 and 3 within Slack et al. ('399 and '746). Therefore, since these MDI isomer mixtures were known to be useful for producing stable isocyanurate containing polyisocyanates and stable allophanate containing polyisocyanates, and since these resulting compositions and the methods by which they were produced are similar to the MDI-based polyisocyanates and method of the primary references, the position is taken that it would have been *prima facie* obvious to react these MDI isomer mixtures according to the teachings of the primary references, so as to obtain the claimed stable, liquid allophanate-modified, trimerized polyisocyanates.

4. Applicant's response of April 9, 2007 has been considered, however, the arguments are insufficient to overcome the prior art rejection for the following reasons. Applicant's response fails to address the cited deficiency set forth by the examiner within the Office action of January 8, 2007 with respect to applicant's discussion of the Scholl et al. reference. As aforementioned, applicant has based his response to the examiner's reliance on Scholl et al. on one specific isomer composition that is outside the scope of the invention while ignoring the remaining teachings that are within the claimed range, including the specific examples that employ p-MDI. As aforementioned and contrary to applicant's arguments, the p-MDI containing compositions are not outside the scope of the instant claims, because the instant claims do not exclude p-MDI. Applicant's argued percent total of the MDI isomers of the claims is based upon component a)(1), a diphenylmethane diisocyanate. Accordingly, the argued percent composition is based solely on the diisocyanate component and cannot be construed to exclude components that are

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not diphenylmethane diisocyanate, such as p-MDI. Since the claims are open to inclusion of other components, including p-MDI, the argued compositions of Scholl et al. are not excluded by the claims. Since applicant's arguments are heavily based upon an improper interpretation of the claims, no meaningful weight can be given to applicant's arguments that fail to address relevant teachings of Scholl et al. Therefore, applicant has failed to provide an adequate response that would allow for removal of the Scholl et al. reference. Furthermore, it is not clear that applicant's response has addressed the examiner's previously set forth concerns with respect to what applicant argues would be expected for 2,4'-MDI isomer ranges of greater than 38% to 40%.

5. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication should be directed to R. Sergent at telephone number (571) 272-1079.

R. Sergent July 7, 2007